

JC951 U.S. PTO
08/02/01

08-03-01

A

PTO/SB/17 (10/00)

FEE TRANSMITTAL
for FY 2001

Patent fees are subject to annual revision

Complete if Known

Application Number

Filing Date

CONCURRENTLY

First Named Inventor

WALTER T. BURKE

Examiner Name

Group / Art Unit

Total Amount of Payment

\$ 655.00

Attorney Docket No.

H052586.0003US0

U.S. PRO

09/921170

08/02/01

METHOD OF PAYMENT (check one)

1. X The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:
Deposit Account No.: 16-2435
Deposit Account Name:
Akin, Gump, Strauss, Hauer & Feld, L.L.P.
 X Charge any additional Fee Required Under 37 CFR §§ 1.16 & 1.17
 Applicant claims small entity status.
See 37 CFR 1.27

2. x Payment Enclosed: x Check
 ___ Money Order
 ___ Credit Card
 ___ Other

FEE CALCULATION

1. Basic Filing Fee

Large Fee Code	Large Entity Fee (\$)	Small Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
101	\$710	201	\$355	Utility Filing Fee	\$ 355.00
106	\$130	206	\$ 65	Design Filing Fee	\$
107	\$490	207	\$245	Plant Filing Fee	\$
108	\$710	208	\$355	Reissue Filing Fee	\$
114	\$150	214	\$ 75	Provisional Filing Fee	\$
				Subtotal (1)	\$355.00

2. Extra Claim Fees

Claims		Extra		Fee (below)		Fee Paid
Total	40	-20** =	20	x	\$ 9.00	= \$ 180.00
Indep.	6	-3** =	3	x	\$ 40.00	= \$ 120.00
Multiple Dependent						\$ 300.00

**or number previously paid, if greater.

For Reissues, see below

Large Entity Fee (\$)	Small Entity Fee (\$)	Fee Description
\$ 18	\$ 9	Claims in excess of 20
\$ 80	\$ 40	Independent claims in excess of 3
\$ 270	\$ 135	Multiple dependent claim, if not paid
\$ 80	\$ 40	**Reissue independent claims over original patent
\$ 18	\$ 9	**Reissue claims in excess of 20 and over original patent

Subtotal (2)

\$ 655.00

FEE CALCULATION (continued)

3. Additional Fees

Late Fee Code	Large Entity	Small Fee Code	Small Entity	Fee Description	Fee Paid
105	\$ 130	205	\$ 65	Surcharge - late fee or oath	\$
127	\$ 50	227	\$ 25	Surcharge - late provisional filing fee or cover sheet	\$
147	\$2,520	147	\$2,520	Request for Reexamination	\$
112	\$920*	112	\$920*	Requesting publication of SIR prior to Examiner action	\$
113	\$1840*	113	\$1840*	Requesting publication of SIR after Examiner action	\$
115	\$ 110	215	\$ 55	Extension for reply within first month	\$
116	\$ 390	216	\$ 195	Extension for reply within second month	\$
117	\$ 890	217	\$ 445	Extension for reply within third month	\$
118	\$1,390	218	\$ 695	Extension for reply within fourth month	\$
128	\$1,890	228	\$ 945	Extension for reply within fifth month	\$
119	\$ 310	219	\$ 155	Notice of Appeal	\$
120	\$ 310	220	\$ 155	Filing a brief in support of an appeal	\$
121	\$ 270	221	\$ 135	Request for oral hearing	\$
140	\$ 110	240	\$ 55	Petition to revive - unavoidable	\$
141	\$1,240	241	\$ 620	Petition to revive - unintentional	\$
142	\$1,240	242	\$ 620	Utility issue fee (or reissue)	\$
143	\$ 440	243	\$ 220	Design issue fee	\$
144	\$ 600	244	\$ 300	Plant issue fee	\$
122	\$ 130	122	\$ 130	Petitions to the Commissioner	\$
123	\$ 50	123	\$ 50	Petitions related to provisional applications	\$
126	\$ 240	126	\$ 240	Submission of Information Disclosure Statement	\$
581	\$ 40	581	\$ 40	Recording each patent assignment per property (times number of properties)	\$
146	\$ 710	246	\$ 355	Filing a submission after final rejection (37 CFR 1.129(a))	\$
179	\$ 690	279	\$ 345	Request for Continued Examination (RCE)	\$
169	\$ 900	169	\$ 900	Request for expedited examination of a design application	\$

Other fee (specify): _____ \$

Other fee (specify): _____ \$

* Reduced by Basic Filing Fee Paid

Subtotal (3)	0.00
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Submitted by

Richard A. Schafer, Reg. No. 45,078

Express Mail No. EL 431748908US

Date:

8/2/01

Figure 1

Figure 1 displays two histograms showing the distribution of the number of non-zero elements in the sparse matrices generated by the proposed algorithm. The x-axis represents the number of non-zero elements, ranging from 0 to 100. The y-axis represents the frequency, ranging from 0 to 10.

The left histogram shows the distribution for the matrix size $n = 100$. The distribution is highly skewed towards zero, indicating that most matrices have a very small number of non-zero elements. The right histogram shows the distribution for the matrix size $n = 200$. This distribution is also skewed towards zero but has a wider spread than the $n = 100$ case, with some matrices having up to 100 non-zero elements.

WALTER T. BURKE


Serial No.: UNKNOWN

Group Art Unit No.: Unknown

Attorney Docket No.: H052586.0003US0

Dear Sir:

Respectfully submitted,


Richard A. Schafer, Reg. No. 45,078
Attorney for Applicant

Date:

052586.0002 HOUSTON 200071 v1